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FIGURE 1

1	ATGTCAGTGGAGCCATGAAGAAGGGAGTGGGAGGGCAGTTGGGCTTGGAGGGCGCAGC	60
61	GGCTGCCAGGGCTACGGAGGAAGACCCCTTCCCGACTGCGGGGCTTGGCTCCGGGACAA	120
121	GGTGGCAGGCGCTGGAGGCTGCCGACGCTGCGTGGTGGAGGGGAGCTCAGCTCGGTTG	180
181	TGGGAGCAGGCGACCGGCACTGGCTGGATGGACCTGGAGCCCTCGCTGCTGCCCACTGGT	240
241	CCCAATGCCAGCAACACCTCTGATGGCCCCGATAACCTCACTTCAGCAGGATCACCTCCT	300
301	CGCACGGGAGGATCTCTACATCAACATCATCATGCCTTCGGTGTTCGGCACCATCTGC	360
361	CTCCTGGGCATCATCCGGAACTCCACGGTCATCTTCGCGGTCGTGAAGAAGTCCAAAGCTG	420
421	CAC TGGTGCAACAACCTCCCGACATCTTTCATCATCAACCTCTCGGTAGTAGATCTCCTC	480
481	TTTCTCCTGGGCATGCCCTTCATGATCCACCAGCTCATGGGCAATGGGGTGTGGCACTTT	540
541	GGGAGACCATGTGCACCTCATCACGGCCATGGATGCCAATAGTCAGTTCAACCAGCAC	600
601	TACATCCTGACCGCCATGGCCATTGACCGCTACCTGGCCACTGTCCACCCCATCTCTTCC	660
661	ACGAAGTTCCGGAAGCCCTCTGTGGCCACCCCTGGTGATCTGCCCTCCTGTGGGCCCTCTCC	720
721	TTCATCAGCATCACCCCTGTGTGGCTGTATGCCAGACTCATCCCTTCCCAGGAGGTGCA	780
781	GTGGGCTGGGGCATACGCCCTGCCCAACCCAGACACTGACCTCTACTGGTTCAACCCTGTAC	840
841	CAGTTTTCCTGGCCCTTGCCCTGCCCTTTGTGGTCATCACAGCCGCATACGTGAGGATC	900
901	CTGCAGGCGCATGACGTCCTCAGTGGCCCCCGCCCTCCAGCGCAGCATCCGGCTGCGGACA	960
961	AAGAGGTGACCCGCAACAGCCATCGCCATCTGTCTGGTCTTCTTTGTGTGCTGGGCACCC	1020
1021	TACTATGTGCTACAGTGAACCCAGTTGTCCATCAGCCGCCCGACCCCTCACCTTTGTCTAC	1080
1081	TTATACAATGGGCCATCAGCTTGGGCTATGCCAACAGCTGCCCTCAACCCCTTTGTGTAC	1140
1141	ATCGTGCTCTGTGAGACGTTCCGCAACGCTTGGTCTGTGCGGTGAAGCCTGCAGCCCCAG	1200
1201	GGCAGCTTCGGCTTTCAGCAACGCTCAGACGGCTGACGAGGAGGAGACAGAAAGCAAA	1260
1261	GGCACCTGA	1269

[illegible]

3/15

FIGURE 3

1 MSVGAMKKGVGRAVGLGGGS 20
21 GCQATEEDPLPDCGACAPGQ 40
41 GGRRWRLPQPAWVEGSSARL 60
61 WEQATGTGWMDLEASLLPTG 80
81 PNASNTSDGPDNLTSAGSPF 100
101 RTGSISYIN IIMPSEGTIC 120
121 ILGIGNSTVIEAVVKKSKL 140
141 HWCNNVPD IEIINISVVDLI 160
161 ELLGMEFMIHQLMGNGVWHF 180
181 GETMCTLITAMD ANSOETST 200
201 YILTAMAI ^{III} DRYLATVHPIS 220
221 TKFRKPS VATLVICLLWALS 240
241 FISITPVWLYARLI ^{IV} PFPGGA 260
261 VGC GIRLPNPD ^V TDLYWFTLY 280
281 QFFLAFA ^V LPPFVVITAAVVP 300
301 LQRMES SVAPASQ ^{VI} RSIRLRT 320
321 KR VTEATAICLV ^{VI} FFCWAP 340
341 YVVLQLTQLSISRPTLT ^{VII} FVY 360
361 LYNAAISLG ^{VII} YANSCLNPFVY 380
381 IVLC ETFRKRLVLSVKPAAQ 400
401 GOLRAVSNAQTADERTESK 420
421 GT 422

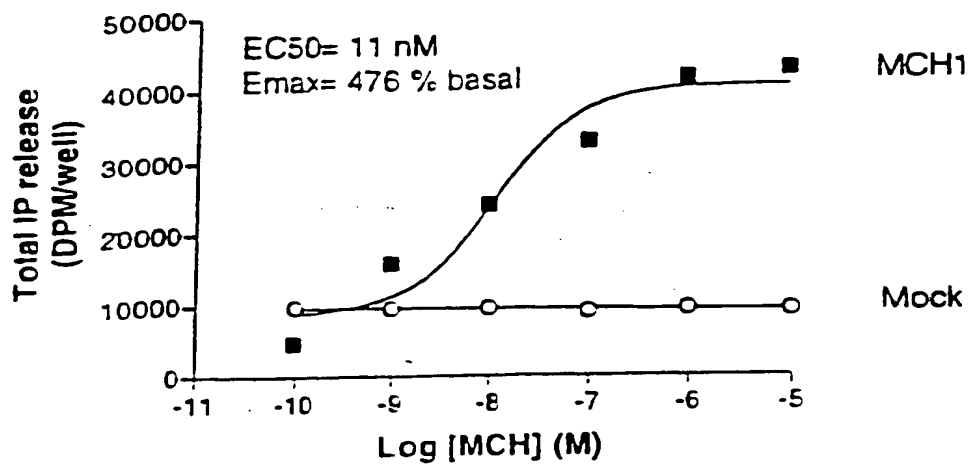
FIGURE 4

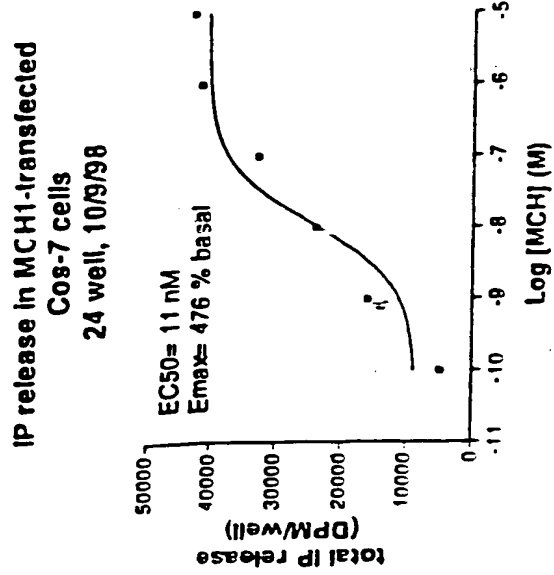
1	GCAGGGACCTGCACCGGCTGCATGGATCTGCNAACCTCGTTGCTGTCCACTGGCCCCAA	60
61	TGCCAGCAACATCTCCGATGGCCAGGATAATCTCACATTGCCGGGGTACCTCCTCGCAC	120
121	AGGGAGTGTCTCCTACATCAACATCATATATGCCCTTCGGTGTGGTACCACATCTGTCTCCT	180
181	GGGCATCGTGGGAACCTCCACGGTCATCTTTGCTGTGGTGAAGAAGTCCAAAGCTACACTG	240
241	GTGCAGCAACGTCCCCGACATCTTCATCATCAACCTCTCTGTGGTGGATCTGCTCTTCCT	300
301	GCTGGGCATGCCCTTTCATGATCCACCAGCTCATGGGNAACGGCGTCTGGCACCTTTGGGGA	360
361	AACCATGTGCACCTCTCATCACAGCCATGGACGCCAACAGTCAGTTCACTAGCACCTACAT	420
421	CCTGACTGCCCATGACCATTGACCGCTACTTTGGCCACCGTCCACCCCATCTCCTCCACCA	480
481	GTTCGGGAAGCCCTCCATGGCCACCCCTGGTGATCTGCCCTCCTGTGGCGCTCTCCTTCAT	540
541	CAGTATCACCCCTGTGGCTCTACGCCAGGCTCATTCCTTCCCAGGGGTGCTGTGGG	600
601	CTGTGGCATCCGCCCTGCCNAACCCGGACACTGACCTCTACTGGTTCACTCTGTACCAATT	660
661	TTTCCTGGCCTTTGCCCTTCCGTTTGTGGTCATTACCGCCGCATACGTGNAATACTACA	720
721	GCGCATGACGTCTTCGGTGGCCCCAGCCTCCCAACGCAGCATCCGGCTTCGGACAAAGAG	780
781	GGTGACCCGCACGGCCATTGGCCATCTGTCTGGTCTTCTTTGTGTGCTGGCACCCCTACTA	840
841	TGTGCTGCAGCTGACCCAGCTGTCCATCAGCCGCCGACCCCTCACGTTTGTCTACTTGT	900
901	CAACGGGCCATCAGCTTGGGCTATGCTAACAGCTGCCCTGAACCCCTTTGTGTACATAGT	960
961	GCTCTGTGAGACCTTTCCGNAACGGCTTGGTGTGTCTAGTGAAGCCTGCAGCCCAGGGCA	1020
1021	GCTCCGCACGGTCAGCAACGCTCAGACAGCTGATGAGGAGAGGACAGAAAGCAAGGCAC	1080
1081	CTGACAAATCCCCAGTCCCTCCAAAGTCAGGCCACCCCATCAAAACCGTGGGAGAGATAC	1140
1141	TGAGATTAAACCCCAAGGCTACCTGGGAGAAATGCAGAGGCTGGGAGGCTGGGGGCTTGTAG	1200
1201	CAACCACATTCCAC	1214

1	20
21	40
41	60
61	80
81	100
101	120
121	140
141	160
161	180
181	200
201	220
221	240
241	260
261	280
281	300
301	320
321	340
341	354

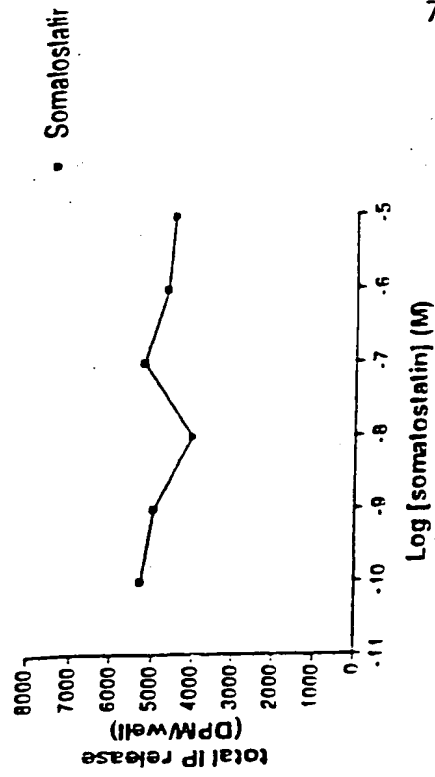
FIGURE 6

IP release in MCH1- and
mock-transfected Cos-7 cells

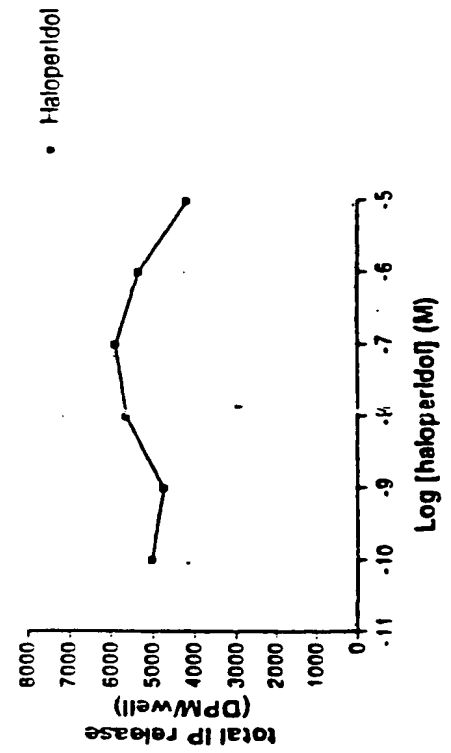




IP release in MCH1-transfected
Cos-7 cells
24 well, 10/9/98



IP release in MCH1-transfected
Cos-7 cells
24 well, 10/9/98



IP release in MCH1-transfected
Cos-7 cells
24 well, 10/9/98

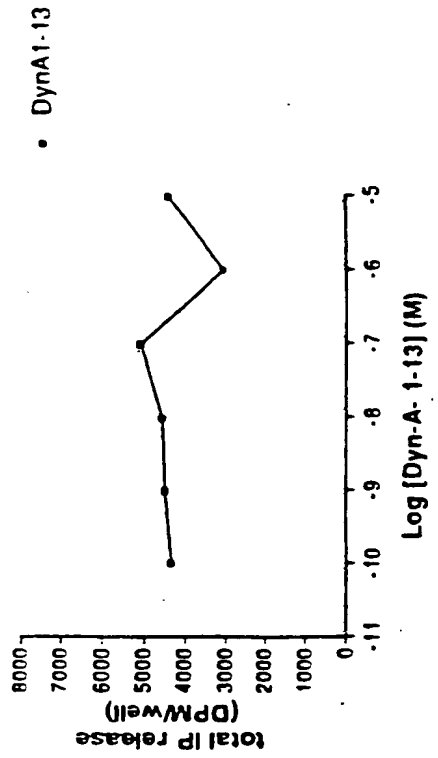


FIGURE 7

Microphysiometer Response
CHO cells

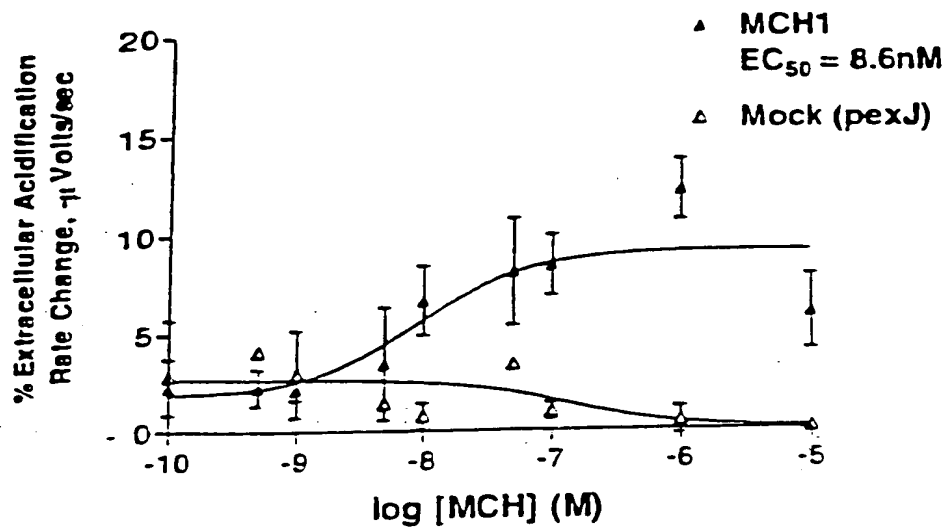
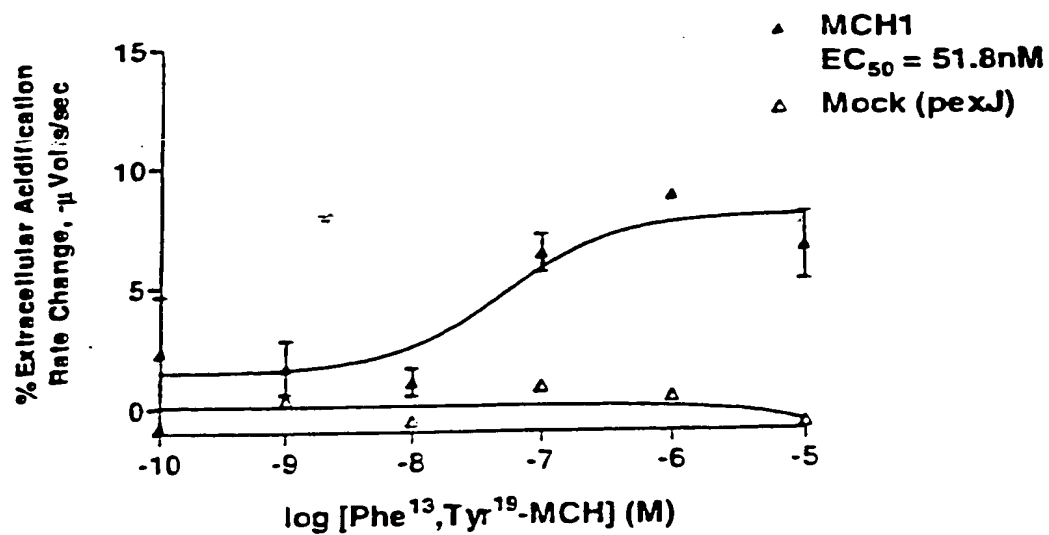


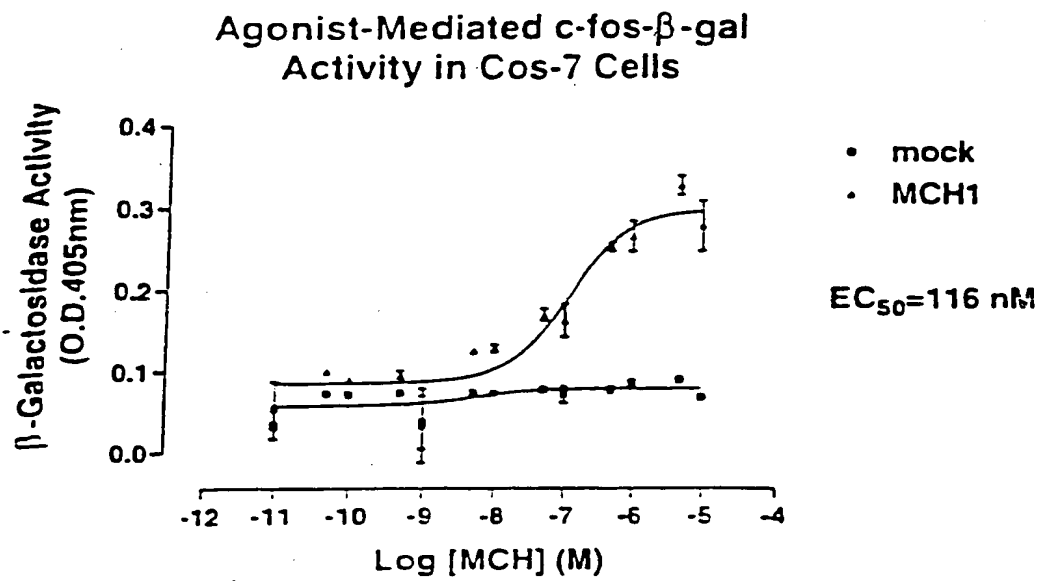
FIGURE 8

Microphysiometer Response
CHO cells



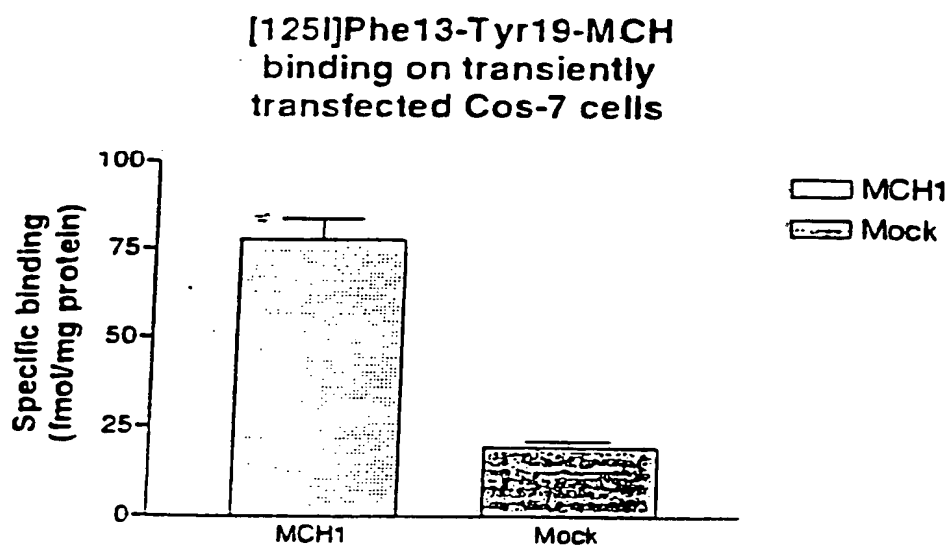
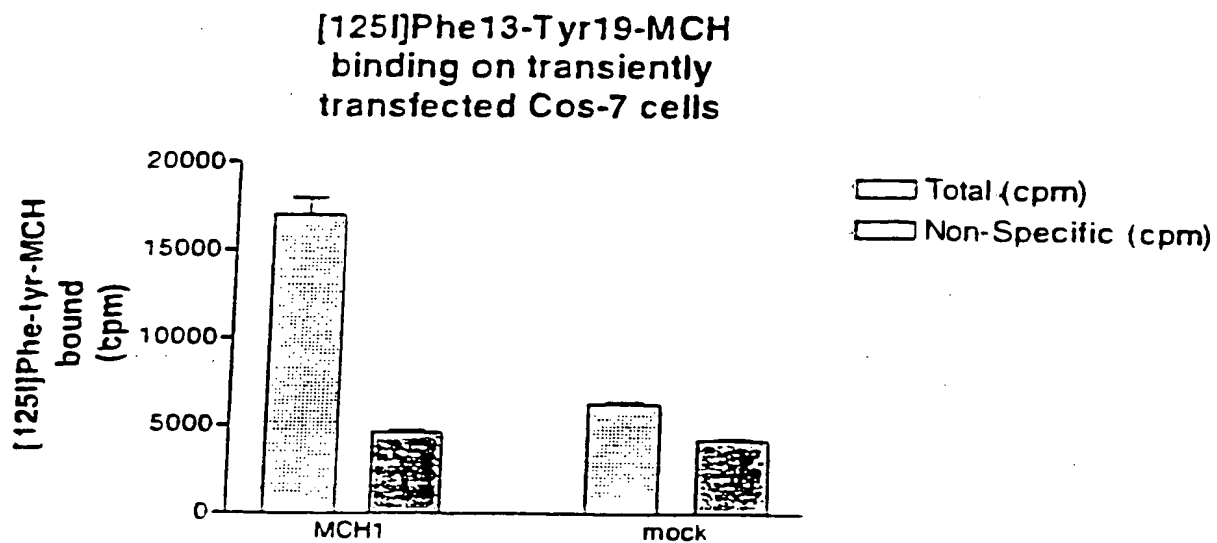
9/15

FIGURE 9



10/15

FIGURE 10



11/15

FIGURE 11

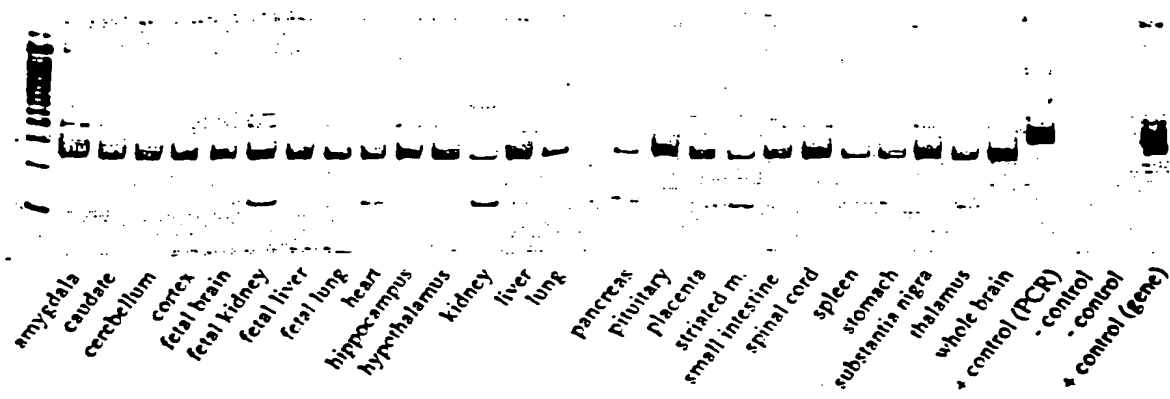


Figure 12

	1			40
TL231	MSVGAMKKGV	GRAVGLGGGS	GCQATEEDPL	PDCGACAPGQ
R106	MSVGAMKKGV	GRAVGLGGGS	GCQATEEDPL	PDCGACAPGQ
R114	MSVGAaKKGV	GRAVGLGGGS	GCQATEEDPL	PDCGACAPGQ
BO120	~~~~~	~~~~~	~~~~~	~~~~~
	41			80
TL231	GGRRWRLPQP	AWVEGSSARL	WEQATGTGWM	DLEASLLPTG
R106	GGRRWRLPQP	AWVEGSSARL	WEQATGTGWa	DLEASLLPTG
R114	GGRRWRLPQP	AWVEGSSARL	WEQATGTGWa	DLEASLLPTG
BO120	~~~~~	~~~~~	~~~~~M	DLEASLLPTG
	81	100		
TL231	PNASNTSDGP	DNLTSAGSPP...		
R106	PNASNTSDGP	DNLTSAGSPP...		
R114	PNASNTSDGP	DNLTSAGSPP...		
BO120	PNASNTSDGP	DNLTSAGSPP...		

[illegible]

[illegible]

1	M	D	L	E	A	S	L	L	P	T	G	P	N	A	S	N	T	S	D	G	20
21	P	D	N	L	T	S	A	G	S	P	P	R	T	G	S	I	S	Y	I	N	40
41	I	M	F	S	V	F	G	T	I	C	L	H	W	C	I	N	G	N	S	T	60
61	V	I	F	V	V	K	K	S	K	L	L	F	L	L	G	M	P	P	D	I	80
81	F	I	I	N	L	S	V	D	L	L	F	L	E	T	M	C	T	L	I	T	100
101	H	Q	L	M	G	N	G	V	W	H	F	G	E	L	T	R	A	M	I	D	120
121	A	M	D	A	N	S	Q	F	T	S	T	Y	I	K	F	R	K	P	S	V	140
141	R	Y	L	A	T	V	H	P	I	S	S	T	F	I	S	I	G	L	P	W	160
161	T	Y	L	V	I	C	L	W	A	L	S	F	I	G	C	I	G	L	P	N	180
181	Y	A	R	L	I	P	F	P	G	G	A	V	G	F	C	I	F	S	L	P	200
201	P	D	T	D	I	L	Y	F	T	L	Y	Q	F	F	L	A	F	S	V	A	220
221	F	V	V	I	T	A	S	F	V	R	I	L	Q	R	M	T	R	A	I	A	240
241	P	A	S	Q	R	F	I	V	R	L	R	T	K	R	V	T	L	S	I	Q	260
261	I	C	L	V	F	F	V	C	W	A	P	Y	Y	V	V	L	Q	A	I	L	280
281	S	I	S	R	P	T	L	N	P	F	V	Y	Y	N	A	C	E	T	S	R	300
301	Y	A	N	S	C	L	V	K	P	E	A	Q	I	G	L	R	N	A	K	A	320
321	R	L	V	L	S	E	E	R	T	E	S	K	G	T	L	C	R	V	S		340
341	Q	T	A	D	E	E	R	T	E	S	K	G	T	L	C	R	V	S			353